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December 10, 2003

ATT: EXAMINER GONZALEZ

RE: U.S. Patent Appl. Ser. No. 09/622,261 SCHACH

As requested, the reference Surface Mount Coil Gauge Mechanism is submitted herewith.

Consideration of this reference is respectfully requested.

Respectfully submitted,

*[Signature]*  
MICHAEL J. STRIKER

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2244 Research Disclosure  
(1989)October, No.306, New York, US

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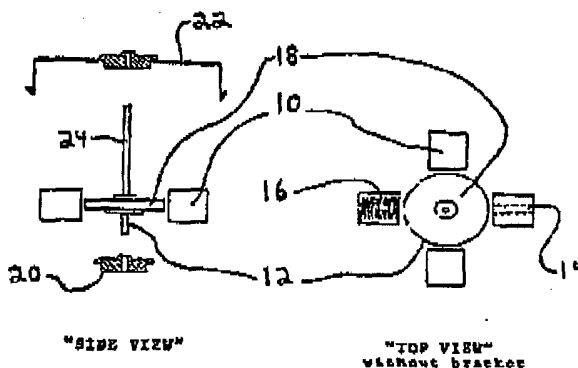
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Surface Mount Soil Gage Mechanism

**A-73.2**

A 360° rotational indicator gage mechanism as shown in Figure 1 consists of a shaft assembly (10) and a permanent magnet spindle assembly (12). Attached to the spindle (12) can be a dial pointer or other indicating device. The coils have a high permeability core (14) and are wound with insulated copper wire for the coil (16). The rotational position of the spindle assembly permanent magnet (18) is controlled by the amount and direction of electrical current in the surface mount coils.

The mechanism is held in place by a bottom self-lubricating bearing (20) and an upper bearing bracket (22). The upper bearing bracket also serves as a flux-containing package.



Disclosed anonymously  
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